

February 23, 2018

Re: Georgetown/Scott County, Kentucky
700/800MHz Project-25 Radio Network

This **Addendum No.1**, to Georgetown/Scott County, Kentucky 700/800MHz Project-25 Radio Network, is hereby issued to provide clarification to the Proposal in the following particulars only, and is made a part of the Proposal document.

1. There are several buildings listed as critical coverage in the RFP, and in order to give the most accurate response we would like to send a couple of our technicians into the schools and possibly some government buildings for readings. This should not be a long process and they are able to get the readings fairly quickly. Is this something that would be approved by the City/County, and if so please let me know who I need to contact to coordinate? **A second day of the pre-proposal conference was held to allow proposers to gather data for a building list requested. The buildings visited were EMS HQ/City Fire Station 1, Scott County Fire Station 5, Scott County Fire Station 1/Emergency Management, Toyota Plant, Northern Elementary School, Eastern Elementary School, Stamping Ground Elementary School, and Scott County Detention Center.**
2. Would it be possible to be provided a copy of the needs assessment of the current radio system for the City Georgetown and Scott County that was performed by Tusa please? **The Phase 1 needs assessment report was made available and provided to any proposer requesting an electronic copy.**
3. Will the county please provide the locations (street address and/or coordinates) of open land areas owned by the city of Georgetown and Scott County or lands of interests to the county for proposers to utilize as greenfield sites in their designs. Will the county also confirm that the sites are not in violations of zoning ordinances or FAA regulations? **The proposer is required to determine if any proposed sites can meet all City, County, State, and Federal requirements. An electronic copy of land owned by City/County will be provided.**
4. Would you be willing to consider "Dispatch Only" proposals for the Georgetown/Scott County, Kentucky 700/800MHz Project-25 Radio Network bid? **No, however proposers can partner with other proposers to provide an integrated solution.**

5. Can the City/County please provide a .DWG version of the drawing to ensure the correct dimensions are received for development of the furniture design? A .DWG version is not available. Proposers visited the 911 center to gather any dimensions and was also provided the opportunity to view an accurate drawing with dimensions.
6. As the CDR may be completed sometime ahead of the system being implemented, please confirm if the City/County would be willing to have training conducted closer to the time of cutover to ensure students are able to maintain maximum knowledge of material learnt in preparation for the system transition. Training will be determined by the customer and proposer upon award of the contract.
7. Does the City/County have a training room available where consoles can be temporarily setup for training dispatchers? This would allow the students to use the same equipment they will be transition to during the system transition. The City/County has rooms available at the Emergency Management or Georgetown Police Department locations.
8. Please confirm training is required for one person. Also, to provide the most economical training for this one person, is the City/County willing to have the student travel to obtain this in depth training as they will have access to all the tools and materials to allow maximum knowledge gain. Technical training should be considered for one person at the proposer location for technical training. The technical training should be priced as optional for one person. All other training should be identified for on-site, off-site, or virtual training as offered by the proposer's training program.
9. Please confirm operational and maintenance training is required for one person as identified above or if it is for more than one individual; if so, please confirm the number of individuals who will require this training. Maintenance training should be considered for one person at the proposer location for technical training. The technical training should be priced as optional for one person. Operational training should be identified for on-site, off-site, or virtual training as offered by the proposer's training program.
10. Please confirm training the number of students requiring operational and full maintenance training. Maintenance training should be priced optional for one student.
11. Please confirm the number of students requiring Administrative and dispatcher training. Administrative training should be provided for two (2) persons. Dispatcher training should be provided for eighteen (18) dispatchers.
12. Please confirm the style of training to be provided; Train-the-Trainer or End User training. If different for administrators, supervisors, dispatchers or end-users please confirm. Two (2) Administrators – train the user, Five (5) Supervisors – train the user, Eighteen (18) Dispatchers – train the user, Twenty (20) users – train the trainer.

13. The subscriber list on page 227/242 of the RFP indicates 773 subscribers are to be purchased. Please confirm that the 773 are to be priced out as part of the RFP pricing response. **The list provided in the RFP is accurate and shows 773 subscribers.**

14. Please confirm the location of the fire stations.

City Fire Station 1 – 141 South Broadway Georgetown, KY

City Fire Station 2 – 200 Morgan Mill Road Georgetown, KY

City Fire Station 3 – 101 Airport Road Georgetown, KY

County Fire Station 1 – 2200 Cincinnati Pike, Georgetown, KY

County Fire Station 2 – US Highway 32 towards Sadieville from US Highway 25 North

County Fire Station 4 – 3217 Newtown Pike Georgetown, KY

County Fire Station 5 – 101 Homestead Parkway Georgetown, KY

Stamping Ground Fire Station 1 – 122 Springview Drive Stamping Ground, KY

15. How many selected Smartphone users should the proposed Broadband Gateway support? **The proposer should identify the number of users their system can support. The City/County will identify license quantities based on the different levels the system can support.**

16. The City/County has provided a list of 25 locations. Please confirm if there are 20 or 25 locations. **Twenty (20) Federal Signal DCFCT(B) Sirens with VHF receiver radios and two (2) Federal Signal Thunderbolt sirens that are tone activated only.**

17. Can the City/County please provide the existing documentation on the existing Mobile Tornado Siren system? **Additional documentation is supplied with this addendum.**

18. Are there any existing backhaul or network connection that can be leveraged at 911 Dispatch Center or Emergency Management Center? **No**

19. Please confirm the requirements for security systems. **Security systems are identified as cameras or door entry systems located at the tower sites.**

20. Can the City/County please provide an inventory, including make and model, of control stations that can be used for interoperability? **All equipment should be proposed as new for this RFP. No reuse of equipment will be allowed.**

21. Are all identified Administrative Lines Analog? **Yes.**

22. For the logger recorder expansion from 60 to 90 channels, what percentage of these channels will be Radio (IP) or Analog? **All expansion should be consider for IP.**

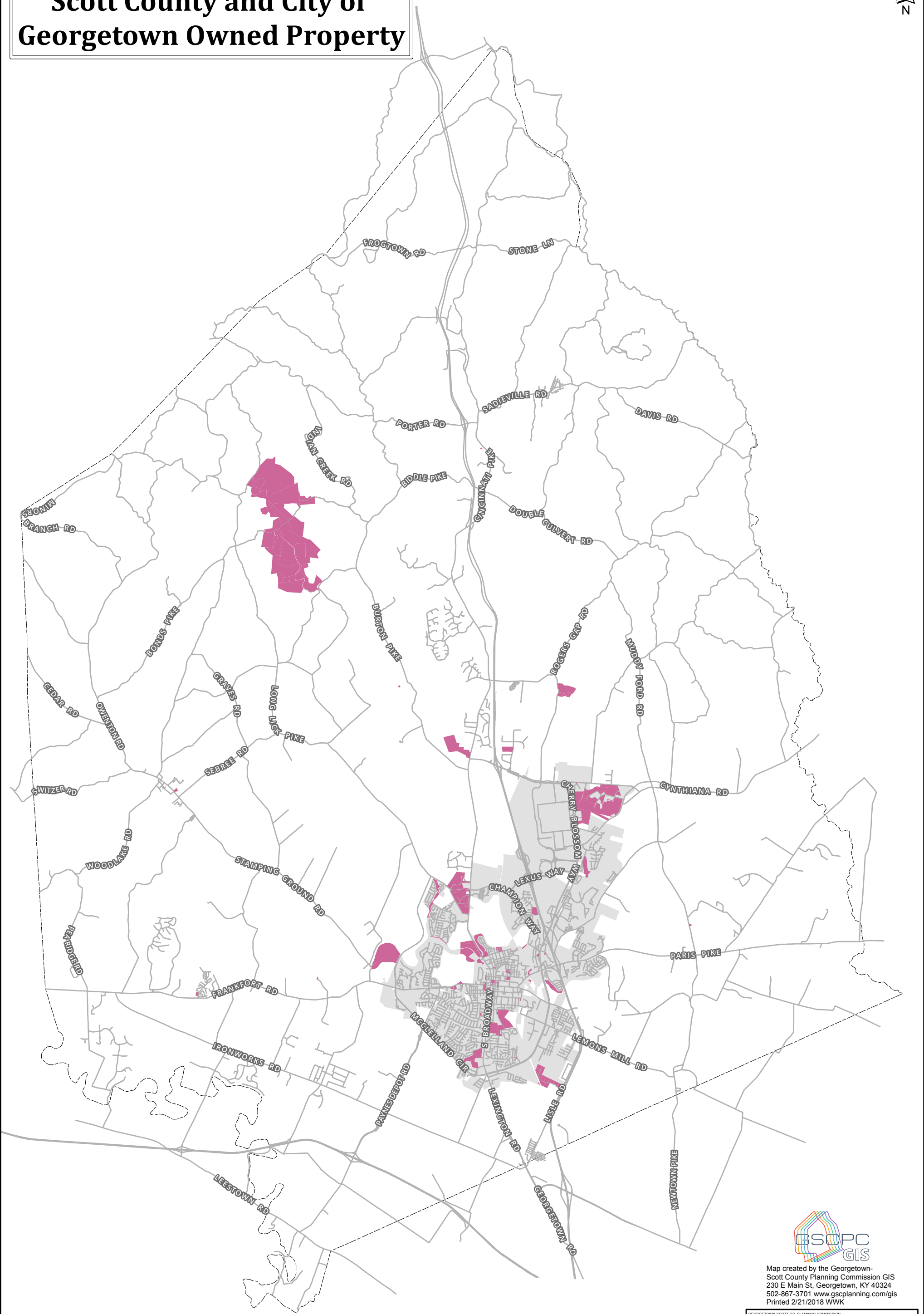
23. Please confirm the quantity and size of monitors that will be placed on the requested dispatch furniture. There are currently 4 monitors (1-14" 911 Monitor, 1-16" Zetron Console Monitor, & 2-19" monitors Aegis/new World CAD Monitors).
24. How many CPUs? There are currently 3 computer CPU's at each position. (1 – AT&T phones, 1 – Aegis CAD, 1 – Zetron).
25. Is there any requirement for rack mount equipment? No.
26. Per the RFP requirements for system capacity for current and future growth, can proposers select the size shelter that would meet the future needs of the City/County? If not, cost effective communications shelters are available with standard 9' H x 11'8" W interior dimensions. Would these interior dimensions be acceptable to the City/County? The proposers should provide a shelter that demonstrates the ability to house the proposed system and the growth capacity per the RFP specifications.
27. What is the means by which the service outage will be reported? Is system monitoring to be provided by Contractor? The proposer should identify how they will identify a service outage during the warranty and post warranty periods.
28. Please clarify the difference from the Interoperability Links identified in the Pricing breakout for each Simulcast Site with the links identified in the table in Section 3.2.7 (Page 50). The links identified in Section 3.2.7 are the same links as identified in the pricing section. The system/site design should reflect the best location for these links to be installed to communicate with the respective agency for interoperability.
29. Would you be willing to consider "Dispatch and Logging Recorder Only" proposals for the Georgetown/Scott County, Kentucky 700/800MHz Project-25 Radio Network bid? No, however proposers can partner with other proposers to provide an integrated solution for dispatch or the logging recorder solution.
30. Can you please provide the manufacturer of the existing Siren System? Federal Signal.
31. Section 8.8 references Carpet (2x2 squares) for the 911 Center. Is the current floor system a raised grid style? If yes, is the entire grid system required to be replaced? If no, can you please provide the manufacturer of the existing system in order to ensure compatibility? What is the total square footage of carpet to be replaced? The current floor is a raised grid type floor. It is not anticipated for this grid system to be replaced. The dimensions provided for the 911 center should allow the proposer an accurate square footage for their proposed carpet tiles.

32. The RFP specifies a 12 month-month implementation; however, the Coverage Acceptance Criteria described in paragraph 7.5 requires that testing only be scheduled during peak vegetation periods – June through September. These requirements seem mutually exclusive unless the contract and NTP will be delayed into the July 2018 timeframe or later. Please clarify. **It is anticipated the contract for this RFP will be awarded no later than July 2018. With a twelve (12) month implementation period, this should allow the vendor the ability to complete the network during the vegetation cycle, sufficient to provide suitable coverage testing.**
33. Is OTAR, OTAP, and GPS location data equipment required for the system implementation? Or are they only options to be described as listed in paragraph 6.1 (page 86)? **As OTAR and GPS are minimum requirements for the subscribers, the system requirements are necessary to support these features.**
34. Please provide a closed contour boundary file (SHP or mif format) or the city area(s) required to be provided with 20db building coverage. **Files are to be provided in electronic format.**
35. Approximately how many buildings within this coverage area would require the 20db additional signal above street coverage levels? **All critical buildings identified in the RFP should meet the 20db in-building requirement.**
36. Referring to the Scott County Detention facility floor plan shown in Appendix D, how many of the rooms shown are partially or completely shielded from RF penetration by bars or mesh? **Testing was allowed in this building for the proposers to gain insight to the actual building losses for this structure. It is unknown if any of the rooms have any type of shielding that might block RF signals.**
37. In paragraph 16.9, the Subscriber minimum configuration table groups Fire/EMS, but the subscriber quantities spreadsheet on page 227 indicates EMS portable should have Police/EMS configurations. Please clarify. **Please refer to the minimum configuration tables for each respective agency. Page 227 is just to identify quantities.**
38. We request a 30-day extension on the due date of the proposal. **No extension will be provided. The due date and time will remain as Wednesday, March 14, 2018 at 4:00 PM EST.**

39. What are the bit error rate (BER) components of the coverage requirements? **Bit Error Rate (BER) is not a determining factor in the coverage acceptance testing. However, proposers should use BER information that is gathered as a means to ensure the proposed simulcast solution is engineered appropriately and should present the data for information only to the City/County.**
40. Does the 100% coverage requirement in the detention center include all parts of the building, including interior closets and stairwells? **Yes.**
41. The RFP requires a local technician to respond on-site within one (1) hour for the corrective maintenance. Also it requires that local technician be located within fifty (50) miles of Scott County to respond to failures or discharge of fire suppression system. We respectfully request that these requirements be revised to state that the "Local service provider will call-back or remotely acknowledge any alarms from the radio system within 30 minutes of receipt of any system issues and will dispatch technicians to be on-site with four (4) hours if required" **The RFP requirements will not be modified or revised.**
42. Would the county verify the specified number of talkgroups and talkpaths required to be supported by the dispatch console system. **The consoles should be able to support all talkgroups on the proposed radio system.**
43. What kind of Zetron Fire Alerting system is currently in use? What kind of interfaces are currently utilized and available at the City and County Fire Stations? How many Fire Stations are in use? **The current Zetron Fire Alerting system was made available to all vendors during the site walks to determine how they are currently utilized. The proposers should provide a Zetron Model 6203 IP Station Unit. The City/County will provide the IP connection. The proposer should provide a backup radio and antenna system for the backup or secondary path. The City/County will provide the Station PA system and controls for any interfaces.**
There are currently four (4) County Fire Stations, three (3) City Fire Stations, and one (1) Fire Station in Stamping Ground.
44. 9.1.1: This section requires a 0.8 PF factory test. This is not available for a single phase unit. Would need to be tested at 1.0 PF. **1.0PF is correct for a single phase machine.**

45. 9.1.1.2: Start-up Service: "Load test records shall be furnished to the city/county." Will a load bank be required or will a site load test suffice? How long will the test need to be? **A load bank is required for this test. The test should run for no less than 2 hours.**
46. 9.1.1.10: Will the isolators called for be between the frame and the floor, or are internal isolators going to be acceptable? **Internal isolators are acceptable.**
47. Section 1.13.1.5F – Phasing of New Network: "Contractor shall provide all test equipment, diagnostic services, documentation, software, personnel, vehicles and other items as necessary to test the delivered and installed radio network in accordance with the Contract's Test and Acceptance Plan." AND Section 7.5 Coverage Acceptance Criteria: "All test vehicles shall be provided by the City/County."
- Please confirm if all test vehicles are to be provided by the City/County or the Contractor. **The City/County will provide all test vehicles for the official Coverage Acceptance Test Plan. If additional testing beyond that official test is required, the Contractor will be responsible for the test vehicles to complete that testing.**
48. Please confirm the number of Fire stations that need to be supported for Fire Station Alerting. **There are currently four (4) County Fire Stations, three (3) City Fire Stations, and one (1) Fire Station in Stamping Ground.**
49. If new towers are required, are Mat and Pier foundations acceptable? **The City/County will accept the design of the engineer of record.**

Scott County and City of Georgetown Owned Property



County/City Property

Georgetown City Limit



Map created by the Georgetown-
Scott County Planning Commission GIS
230 E Main St, Georgetown, KY 40324
502-867-3701 www.gscplanning.com/gis
Printed 2/21/2018 WWK

GEORGETOWN-SCOTT CO. PLANNING COMMISSION
GEOGRAPHIC INFORMATION SYSTEM MAPPING

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* Mapping available in digital or hard copy format in accordance with the adopted fee schedule and standards set out in the Records Request Form.

Scott County Weather Siren Locations

1. 3217 Newtown Pike – County Fire Station 4
2. 2200 Cincinnati Rd – County Fire Station 1
3. Lisle Road – Georgetown Estates Trailer Park
4. 5130 Owenton Rd. – Minorsville Church
5. 192 Mallard Point Dr. @ Cincinnati Rd
6. 115 Galahad Dr.
7. 116 Pocahontas Trail – Faith Baptist
8. 726 Lemons Mill Rd.
9. Frankfort Rd @ Paynes Depot – Water Tower
10. 475 Connector Rd – Spade Corporation
11. Homestead Parkway – County Fire Station 5
12. 2445 Weisenberger Rd – Weisenberger Mill
13. Sadieville Pavilion
14. Stamping Ground Fire Station
15. 400 Victoria Way - Victoria Estates
16. Toyota Gate 7
17. Toyota Gate 4
18. GMWSS Pump Station – 1245 Lemons Mill Rd
19. 257 Midway Rd
20. County Park – Extension Office

21. Suffoletta Park – 325 Louis B Nunn
22. Royal Spring Rd
23. Voice Receivers at all schools and public facilities.

24. Scott County Park
25. Marshall Park – Softball Fields

- 1 - 20 Activated by computer
- 21- 23 Activated by Radio Tone Only
- 24-25 Lightning Sirens (Automated – No Activation)

ACTIVATION @ EOC

1-2. SPECIFICATIONS

1-2-1. THE SS2000D

Electrical

| | |
|-------------------------|----------------------------------|
| Power Supply Input..... | 11.5 - 20 VDC |
| Battery Input..... | 11.5 - 20 VDC |
| Input Current | 400 mADC (MAX) |
| Audio Output..... | Balanced 600 ohm, -55dbm to 0dbm |
| Audio Input..... | Balanced 600 ohm, -35dbm to 0dbm |
| Distortion..... | < 3.0% |

Encode / Decode Modem Format

MSK..... 1200 BAUD

(MSK is a Minimal Shift Keyed digital format)

Decode Sensitivity..... <8-10dB S/N or 12dB SINAD

Relay Outputs..... 3 DPDT 1.25A at 24 VDC
0.4A at 120 VAC

| | | |
|---------------------|-------------|--------------|
| Carrier Detect..... | Active High | 4.5 - 14 VDC |
| | Active Low | 0 - 3.0 VDC |

VOX..... -35dbm to 0dbm

SPEAKER: Power Handling..... 1 watt
Impedance..... 8 ohms

MICROPHONE: Input Level..... 10mV - 100mV p-p
Input Impedance..... 12K ohms
Input Jack..... 1/4" phone
Pinouts: Tip.....Audio
Ring.....PTT
Shield....Gnd

Communication Ports

Parallel Port.....IBM Compatible Printer Port

Serial Port Protocol.....RS232 9600 BAUD, N, 8, 1, Xmodem Standard

Environmental

Operating Temperature..... 0° to 50°C

Physical

Size..... Desk model, 11.57 x 10.25 x 4.20 L x W x H inches
Rack model, 19.00 x 10.09 x 5.24

1-2-2. SS-REMOTE SPECIFICATIONS:

Electrical:

| | |
|---------------------------------------|--------------------|
| Input Voltage | 14.5 Volts |
| Input Current | 15 mAmps (Typical) |
| Maximum Input Contact Resistance | 500 ohms |
| Max. tolerable induced voltage | 500 Volts |
| Input/Output Isolation (opto coupler) | 5000 Vac |

| | |
|--|------------|
| Maximum length of Remote | |
| Connector Cable (10 ohm/ 1000 ft) | 30,000 ft. |
| Maximum wire gauge | 12 AWG |
| Maximum length of I ² C connector | 3 ft. |

| | |
|-----------------------------------|---------|
| Maximum number of remote contacts | 20 |
| Remote input debounce | 1/4 sec |

Physical:

| | |
|-----------------------|--------------------------|
| Size | 11.4 x 4.0 x 2.08 inches |
| Weight | 1.0 lb. |
| Color | Black |
| Operating Temperature | 0° to 50°C |

SECTION IV INSTALLATION

-Caution-

Installation must be performed by an experienced technician in accordance with national, state, and any other electrical codes having jurisdiction.

4.1 General

- The SS2000D features a balanced 600 ohm input and output (optionally set to 10K ohms).
- Relay outputs control Audio output, PTT, MIC disconnect, and a spare contact.
- Both N.O. and N.C. contacts are available.
- Carrier Detect can be active High (4 -14v) or Low (0 - 3.0v).
This input is optionally pulled to 10 VDC through a 470k resistor or to ground through a 690k resistance.
- An optional VOX circuit can be used if a C.D. output is not available. The VOX logic is derived from the Audio input line and should only be used when it is not possible to get a true C.D. signal.

4.2 Connections and adjustments

Make electrical connections as shown in the figure below. If the radio does not have balanced inputs and outputs, the AUDIO OUT LO, RX LO and PTT COM can all be connected together at the radio ground.

If the radio wraps the transmit audio back into its receive audio path (the radio hears itself), the RX audio should be run through the AUX relay at TB1 using the AUDIO DISCONNECT 1 COM and AUDIO DISCONNECT 1 NC contacts. Keep the wire runs short and away from other electrically noisy equipment or wire runs.

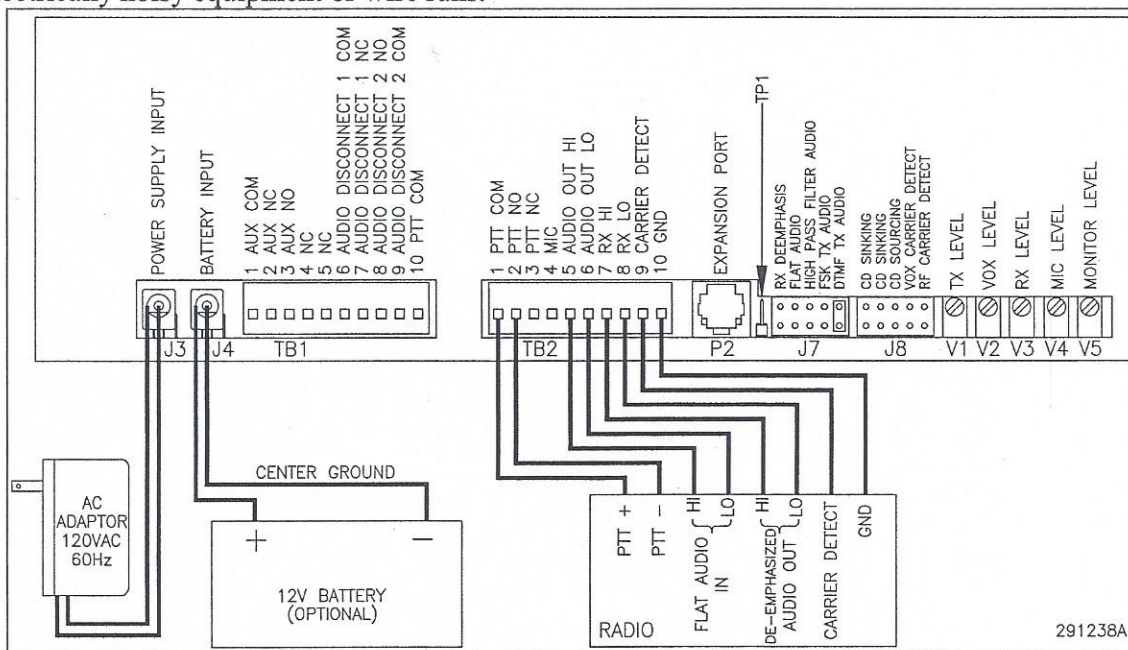


Fig. 4.1: Installation and connection diagram

Project: Georgetown/Scott County, KY.

Date: 2/13/18

| Name | Agency/Vendor | Phone # | Email Address |
|--------------------|---------------------------------|----------------|--|
| Ken Alkerman | MSI | 502-494-6682 | ken.alkerman@motorolasolutions.com |
| John Kugsley | Ariat Networker | 630-762-3730 | John.Kugsley@Ariatnet.com |
| Doug Harvey | Amk Services | 765 620 4592 | HARVEY D @ Amk -S ERVICES,com |
| Andrew Brown | Amk Services | 317 629 9299 | brown@amk-services.com |
| Mike Marcere | EPI Technologies | 815-383-6814 | mmarcere@epitechnologies.com |
| Michael Williams | AMK Services | (434) 471-0637 | williamsm@Amk-Services.com |
| Michael Glazebrook | Pyramis Network | 513-313-2793 | mjglazebrook@pyramis.com |
| Kevin Glazebrook | Pyramis Network | 513-313-2793 | kglazebrook@pyramis.com |
| K & L Beyce | RCS | 502-567-7385 | K Beyce @ RCS, INC |
| Doug Sandberg | HARRIS | 502-751-0872 | LSANDBERG@HARRIS.com |
| JEFF BRANGERS | ERS-OCI WIRELESS ^{MSI} | 859-608-5126 | jeff.brangers@ers-oci.com |
| Rebecca Norwood | Harris | 434-229-2276 | rnorwood1@harris.com |
| Trevina McDonald | Motorola | 770-630-2181 | trevina.mcdonald@motorolasolutions.com |
| Wally Givens | Berlin Group LLC | 401-383-6051 | WGVENS@BERLINGROUP.COM |

Project: Georgetown/Scott County, KY.

Date: 2/13/18

| Name | Agency/Vendor | Phone # | Email Address |
|------------------|--------------------|--------------|-------------------------------------|
| Tony Owens | ERS - OCT Wireless | 812-343-2431 | tony.owens@ers-oct.com |
| Roger Owens | ERS - OCT Wireless | 317-442-8193 | Rogers@ERS-OCT.com |
| BRAD LATIMER | ERS - OCT Wireless | 928-215-6534 | BRAD.LATIMER@ERS-OCT.COM |
| Randy Sampson | Tower Systems | 317 657 3771 | rsampson@tower-system.com |
| VALENTE JIMENEZ | Tower Systems | 252-303-5545 | SVEN@TOWER203@GMAIL.COM |
| SHAWN WIGLEY | TOWER SYSTEMS | 717-903-6084 | swigley@waterfordconsultants.com |
| MATT GILMANINO | EFFTHANSON | 860 680 3155 | MATTGILMANINO@EFFT.COM |
| Eric King | Amkr Services | 604 561 9424 | TRIC@AMKR@EFFT.COM |
| WAYNE FARRER | Comm Int'l | 615-970-1642 | WFAF@COMMINTL.COM |
| Jennifer Osborne | AMK Services | 859-582-4424 | osbornej@amk-services.com |
| Greg Graham | AMK Services | 740-975-1107 | greg@amk-services.com |
| Dan Sulascki | ZETRON | 443,562.5997 | DSULASKI@ZETRON.COM |
| David Paredes | Motorola Solutions | 847-281-6764 | DAVID.PAREDES@MOTOROLASOLUTIONS.COM |
| Robert Rummel | MSI | 440 810 9421 | Robert.rummel@motorolasolutions.com |

Project: Georgetown/Scott County, KY.

Date: 2/13/18

| Name | Agency/Vendor | Phone # | Email Address |
|------------------|------------------------|--------------|--------------------------------------|
| Rickey Lusk | Georgetown PD | 859-621-1461 | Rickey.Lusk@georgetownpolice.org |
| Stacey Clark | City of Georgetown | 502-863-9849 | Stacey.Clark@georgetownky.gov |
| Devon Golden | " | 502-867-2001 | devon.golden@" |
| Robert Swanigan | Georgetown Police | 859-621-1572 | ROBERT-SWANIGAN@GeorgetownPolice.org |
| Michael Hennigan | Scott County EMA/OTB | 859-361-2513 | m.hennigan@scottema.com |
| MIKE FULLIN | SCOTT COUNTY FIRE DEPT | 859-338-6744 | MIFFULLIN@SCFIRE.ORG |
| JASON WHITALE | Georgetown Police | 859 983-3644 | jason.whitale@georgetownpolice.org |
| Eric Colson | Georgetown Fire | 859-388-4321 | ERIC.COLSON@georgetownky.gov |
| Tosh Cook | Stamping Ground Fire | 502-370-7261 | T-Cook@Hotmail.com |
| Jennifer Murphy | Georgetown Co. 911 | 859-983-3627 | jennifer.murphy@gscll.org |
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| | | | |

Date: 2/14/18

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